

Title (en)
ON-FLOW CELL THREE-DIMENSIONAL POLYMER STRUCTURES

Title (de)
DREIDIMENSIONALE POLYMERSTRUKTUREN MIT ON-FLOW-ZELLE

Title (fr)
STRUCTURES POLYMÈRES TRIDIMENSIONNELLES SUR CUVES À CIRCULATION

Publication
EP 3930888 A1 20220105 (EN)

Application
EP 20824402 A 20201125

Priority

- US 201962941197 P 20191127
- US 201962941215 P 20191127
- US 201962941242 P 20191127
- NL 2024527 A 20191220
- NL 2024528 A 20191220
- NL 2024596 A 20191231
- US 2020062163 W 20201125

Abstract (en)
[origin: CA3134848A1] A method for making on-flow cell three-dimensional polymer structures includes loading a polymer precursor solution onto a flow cell. The polymer precursor solution includes a monomer, a crosslinker, and a photoinitiator. The flow cell includes at least one channel for receiving the polymer precursor solution. The at least one channel has an upper interior surface and a lower interior surface. The method further includes illuminating the polymer precursor solution through a patterned photomask using a light at a wavelength sufficient to activate the photoinitiator. Activation of the photoinitiator polymerizes at least some of the polymer precursor solution underneath apertures in the patterned photomask and forms three-dimensional polymer structures that extend from the upper interior surface to the lower interior surface of the at least one channel.

IPC 8 full level
B01J 19/00 (2006.01); **B01L 3/00** (2006.01); **C12Q 1/6806** (2018.01)

CPC (source: CN EP IL)
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Citation (search report)
See references of WO 2021108499A1

Cited by
WO2023183325A1; WO2024064639A1

Designated contracting state (EPC)
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AU 2020391457 A1 20210923; CA 3134848 A1 20210603; CN 113710364 A 20211126; EP 3930888 A1 20220105; IL 286667 A 20211031

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